

IN THE CLAIMS:

1. A gas infusion device for mixing a gas with a liquid for dissolving the gas into solution in the liquid, comprising:  
a tank having a top end a bottom end and a sidewall extending there between defining a tank interior, the tank having a liquid inlet, a gas inlet, a liquid outlet and a level control all substantially located on the top end thereof, the liquid inlet for connection to a source the liquid for admitting thereof into the tank interior and the gas inlet for connection thereof to a pressurized source of the gas for admitting thereof into the tank interior, the level control for maintaining a predetermined volume of liquid within the tank interior wherein a predetermined minimum liquid level is maintained above and relative to the tank bottom end, and the gas inlet having a diffuser in fluid communication therewith and located within the tank interior at a level generally below the predetermined minimum liquid level so that gas entering the tank interior is finely mixed with the liquid, and the liquid outlet having a tube portion extending there from within the tank interior and terminating closely adjacent the tank bottom end, and including a baffle plate positioned within the tank interior above the tank bottom end and below the minimum liquid level and the plate including a first hole for the liquid outlet tube portion to extend there through and the baffle plate have a plurality of secondary holes.